PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY NOTIFICATION OF TRANSMITTAL OF TESTA, HURWITZ & THIBEAULT, LLP Attn. Greenhalgh, Duncan A. THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION High Street Tower 125 High Street Boston, MA 02110 (PCT Rule 44.1) UNITED STATES OF AMERICA Date of mailing (day/month/year) 14/01/2003 Applicant's or agent's file reference FOR FURTHER ACTION CYM-036PC See paragraphs 1 and 4 below International application No. International filing date (day/month/year) PCT/US 02/01430 15/01/2002 Applicant CYTYC CORPORATION 1. X The applicant is hereby notified that the International Search Report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): ____ When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II. Name and mailing address of the International Searching Authority Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been fis filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	f Transmittal of International Search Report								
CYM-036PC	ACTION (Form PCT/ISA/2	20) as well as, where applicable, item 5 below.								
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)								
PCT/US 02/01430	15/01/2002	15/01/2001								
Applicant	13/01/2002	13/01/2001								
Applicant										
CYTYC CORPORATION										
This International Search Regard has been	n prepared by this International Searching Auth	pority and is transmitted to the applicant								
according to Article 18. A copy is being to	ansmitted to the International Bureau.	ionty and is transmitted to the applicant								
This International Search Fescot consists of a total of3 sheets. X It is also accompanied by a copy of each prior art document cited in this report.										
It is also accompanied by	a copy of each prior art document died in this	терот.								
Basis of the report										
	international search was carried out on the bas	sis of the international application in the								
	ess otherwise indicated under this item.									
the international search w Authority (Rule 23 1(b))	as carried out on the basis of a translation of the	he international application furnished to this								
b. With regard to any nucleotide an	d/or amino acid sequence disclosed in the in	ternational application, the international search								
was carried out on the busis of the Contained in the internation	e sequence listing : onal application in written form.									
	enational application in computer readable form	n.								
==	this Authority in written form.									
T furnished subsequently to	this Authority in computer readble form.									
	osequently furnished written sequence listing dies tied has been furnished.	oes not go beyond the disclosure in the								
I 550		s identical to the written sequence listing has been								
furnished	,									
2. Certain claims were fou	nd unsearchable (See Box I).									
3. Unity of invention is lac	•									
4. With regard to the title,										
the text is approved as su	domitted by the applicant.									
the text has been establis	hed by this Authority to read as follows:									
5. With regard to the abstract,										
The text is approved as su	mitted by the applicant.									
	hed, according to Rule 38.2(b), by this Authori									
within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No.										
as suggested by the appl	· ·	X None of the figures.								
because the applicant tail		[A] None of the figures.								
I =	characterizes the invention.									
I —										

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/01430 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68 C12N C12N15/10 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C12Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) SEQUENCE SEARCH, EPO-Internal, MEDLINE, BIOSIS, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Ε WO 02 44400 A (PE CORP NY) 1-31.6 June 2002 (2002-06-06) 36-40 page 3, paragraph 3 page 4, paragraph 2 -page 5, paragraph 1 example 15 Further documents are listed in the continuation of box C. Patent family members are listed in annex. ° Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the international *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family

Form PCT/ISA/210 (second sheet) (July 1992)

Name and mailing address of the ISA

Date of the actual completion of the international search

Fax: (+31-70) 340-3016

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

20 December 2002

Date of mailing of the international search report

COVONE-VAN HEES, M

14/01/2003

Authorized officer

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/01430

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.						
Α	LENTRICHIA B B ET AL: "Detection of Chlamydia trachomatis and Neisseria gonorrhea from liquid-based Pap collection using a novel extraction method and rapid thermal cycling with real-time detection by molecular Beacons." INTERNATIONAL JOURNAL OF STD & AIDS, vol. 12, no. Supplement 2, 2001, page 115 XP008011932 International Congress of Sexually Transmitted Infections; Berlin, Germany; June 24-27, 2001 ISSN: 0956-4624 abstract	1-40						
A	WO 00 77235 A (DEDMAN JOHN R ;REED THOMAS D (US); UNIV CINCINNATI (US); KAETZEL M) 21 December 2000 (2000-12-21) claims 1-5,11,12	1-40						
A	WO 98 16653 A (UNIV UTAH RES FOUND; RUFFNER DUANE (US); CHEN ZHIDONG (US)) 23 April 1998 (1998-04-23) page 3, line 1-21 examples 1,2	1-40						
A	WO 98 14465 A (RANU RAJINDER S ;COLORADO STATE UNIVERSITY THRO (US)) 9 April 1998 (1998-04-09) page 33, line 28 -page 34, line 25	1-40						
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; November 1999 (1999-11) GEVAUDANT F ET AL: "An improved method for isolating polyphenol-free RNA from woody plant tissues." Database accession no. PREV200000075773 XP002225684 abstract & JOURNAL OF TRACE AND MICROPROBE TECHNIQUES, vol. 17, no. 4, November 1999 (1999-11), pages 445-450, ISSN: 0733-4680	1-40						

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 02/01430

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0244400	Α	06-06-2002	AU WO	2017502 A 0244400 A2	11-06-2002 06-06-2002
WO 0077235	A	21-12-2000	AU WO	5620600 A 0077235 A1	02-01-2001 21-12-2000
WO 9816653	Α	23-04-1998	EP JP WO	0941360 A1 2001502179 T 9816653 A1	15-09-1999 20-02-2001 23-04-1998
WO 9814465	A	09-04-1998	US AU EP WO US US	5824875 A 4892997 A 0961777 A1 9814465 A1 6184449 B1 2002083484 A1	20-10-1998 24-04-1998 08-12-1999 09-04-1998 06-02-2001 27-06-2002